

Water - Essential for Life

Cave Run Regional Water Commission Water Quality Report for year 2015

PO Box 20

Wellington, KY 40387

Meetings: Frenchburg City Hall

Meeting Dates and Time: Fourth Thursday of each month 2:00 p.r

KY0831010

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This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product. Water is the most indispensable product in every home and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system.

Cave Run Water Commission treats raw water from Cave Run Lake and distributes it to three consecutive water systems. Cave Run Lake is a surface water source. A source water assessment has been completed by the Commission. A copy of this assessment is available for view at the water treatment plant. An analysis of the suceptibility of the Cave Run Water Commission's raw water supply to contamination indicates that the susceptibility potential is generally moderate. The main source of concern is a major roadway bridge that extends over the source immediately upstream of the intake. Farming sites located in the area also present the possibility for impact from the application of pesticides and fertilizer. Activities and land uses upstream of the raw water intake can pose potential risks to your drinking water. These activities and uses should be of interest to the entire community because they potentially affect your health and the cost of your drinking water.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems, FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs If present, elevated levels of lead can are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is for pregnant women and young children. no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water.

There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10.000.000.000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water

Information About Lead:

cause serious health problems, especially Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from

year to year. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected.

	Allowable Levels		ugh representative, may be more than one year. Highest Single Measurement			Lowest Monthly %	Violation	Likely Source	
, ,	No more than I						75.7		a 11 - M
Representativ Less than 0.3 NTU in		0,12			100	No		Soil runoff	
	95% of monthly								
Regulated (Contaminan	t Test Resul	ts					1	To a second seco
Contaminant			Report		Range		Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Level		of Detection		Sample		Contamination
	Contamina							T >7	
Alpha emitters [4000] (pCi/L)	15	0	0,70	0,7	to	0.7	Feb-12	No	Erosion of natural deposits
Combined radi	5	0	0,80	0.8	to	0.8	Feb-12	No	Erosion of natural deposits
(pCi/L)									Erosion of natural deposits
Inorganic C	ontaminant	ts							
Barium									
[1010] (ppm)	2	2	0.200	0.2	to	0.2	Apr-15	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride									
[1025] (ppm)	4	4	0.98	0.63	to	1.15	Apr-15	No	Water additive which promotes strong teeth
Nitrate									Runoff from fertilizer use; leaching from
[1040] (ppm)	10	10	0,240	0.24	to	0.24	Mar-15	No	septic tanks, sewage; erosion of natural deposits
Disinfectan	ts/Disinfecti	on Byprodu	cts and Prec	ursors					
Total Organic (1.01						
(measured as p	TT*	N/A	(lowest	1.00	to	1,66	N/A	No	Naturally present in environment.
reported as a ra			average)		(monthly ratio	3)			
*Monthly ratio	is the % TOC r	emoval achieve	d to the % TOC	removal requir	ed. Annual aver	age of the month	ly ratios must b	e 1.00 or great	ter for compliance.
Chlorine	MRDL	MRDLG	1.40						
(ppm)	= 4	= 4	(highest	0.82	to	1.84	N/A	No	Water additive used to control microbes
" · '			average)						
HAA (ppb)			38						
(Haloacetic aci	60	N/A	(locational	15	to	55	N/A	No	Byproduct of drinking water disinfection
(Stage II)			average)	(гал	ge of individual	sites)			
TTHM (ppb)			43.825						
total trihalome	80	N/A	(locational	8	to	73	N/A	No	Byproduct of drinking water disinfection,
(Stage II)	50	14774	average)	l.	ge of individual				
		ing water stand						1.1.1.1.100	

EPA has not established drinking water standards for unregulated contaminants. There are no MCL's and therefore no violations if found.